



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

OCT 3 2001

DOT-E 11173
(EIGHTH REVISION)

EXPIRATION DATE: March 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Arch Chemicals, Inc.
Norwalk, CT

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

- a. This exemption authorizes the transportation in commerce of certain hazardous materials in non-DOT specification stainless steel cylinders conforming, in part, with the specifications for a DOT 4BW cylinder. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
- b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 172.101, column (9b), 173.201, 173.226, 173.227, 178.35(f)(1)(i), 178.61(b), 178.61(d)(2) and 178.61(g). The quantity limitations for cargo aircraft are waived when using containers meeting the requirements of this exemption.

5. BASIS: This exemption is based on the application of Arch Chemicals, Inc. dated July 31, 2001, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Dimethylhydrazine, unsymmetrical	6.1	UN1163	I Hazard Zone B
Hydrazine, anhydrous	8	UN2029	I
Methylhydrazine	6.1	UN1244	I Hazard Zone A
Toxic liquids, flammable, organic, n.o.s. (Corrosive) (50% Anhydrous hydrazine and 50% unsymmetrical dimethylhydrazine)	6.1	UN2929	I Hazard Zone B

Those hazardous materials authorized to be transported in DOT Specification 4BW cylinders. Cylinders which contain a low-pressure helium charge and hydrazine, classed and described as "Compressed gas, toxic, flammable, n.o.s. (hydrazine and helium), inhalation Hazard Zone C, Class 2.3, UN1953" and marked and labeled as such may be shipped under this exemption under the same terms and conditions that otherwise apply when the cylinders contain only anhydrous hydrazine.

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification steel cylinder conforming with DOT Specification 4BW (§§ 178.35 and 178.61), except as follows:

§ 178.61(b) *Authorized steel.* The material of construction must be ASTM A240 Type 304L or Type 316L stainless steel.

§ 178.61(d) (2) *Circumferential seams.* Joint must allow a 100% penetration butt weld with or without metal back-up, with full radiographic examination.

§ 178.61(g) *Heat Treatment.* The cylinders need not be heat treated.

§ 178.35(f) *Markings.*

Applies except each cylinder must be marked "DOT-E 11173" in lieu of "DOT 4BW".

b. TESTING - Cylinders must be retested in accordance with the requirements of § 173.34 applicable to the DOT 4BW cylinder.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

OCT 3 2001

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: KFW/alb

OCT 3 2001

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Astrotech Space Operations, Inc. Titusville, FL	Aug 24, 2001	OCT 3 2001	Mar 31, 2002
General Dynamics, Ordnance & Tactical Systems, Aerospace Operations Redmond, WA	Aug 1, 2001	OCT 3 2001	Mar 31, 2002
Motorola Corporation Chandler, AZ	Jul 19, 2001	OCT 3 2001	Mar 31, 2002
U.S. Department of Defense Washington, DC	Aug 17, 2001	OCT 3 2001	Mar 31, 2002



Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety